



Faculty of Medicine

LÄMA53, Degree Project 1 (Basic Level), 15 credits

Examensarbete 1 (Grundnivå), 15 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Medical Degree Programme Board on 2016-10-25 to be valid from 2016-10-25, autumn semester 2016.

General Information

The course makes up the final half of semester 5 of the Master of Science programme in Medicine. It is compulsory.

Language of instruction: Swedish

The language of instruction is mainly Swedish, but English may be used both in the literature and in the written papers.

Main field of studies

Medicine

Depth of study relative to the degree requirements

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Learning outcomes

Knowledge and understanding

On completion of the course, the students shall be able to

- explain basic concepts and principles with regard to reference management and the design of a scientific article

- explain the meaning of clinical assessments and account for laws and regulations that govern such assessments
- explain basic concepts and principles with regard to qualitative methodology
- explain basic concepts and principles with regard to copyright
- provide a specialised account of the current state of knowledge and for current research in a delimited area of the medical field
- provide a specialised account of methods applicable in a delimited part of the medical field and for the potential and limitations of the methods.

Competence and skills

On completion of the course, the students shall be able to

- apply basic concepts and principles with regard to study design, statistics and epidemiology
- apply appropriate search strategies when seeking published research
- apply concepts, principles, laws and regulations with regard to research ethics
- formulate a specific issue of relevance to the development of knowledge in the main field of study, based on the current state of knowledge
- use a specific issue to independently seek, select and assess sources, and use information from the literature in a specialised study project and in discussions with fellow students
- write a project plan based on an appropriate study design with regard to the issue and the overall aim
- execute a project based on the project plan, compile and analyse their results and critically assess the importance and limitations of the results from the point of view of issue and method
- describe applicable research methods in the field, the potential and limitations of the methods, and explain the choice of methods of relevance to the specialised study project
- write a research paper in Swedish or English, and a popular science summary of this in Swedish
- independently and orally account for and discuss their own specialised study project
- publicly discuss the specialised study projects of fellow students by reviewing them critically and providing constructive oral feedback

Judgement and approach

On completion of the course, the students shall be able to

- make assessments of aspects of research ethics of specific relevance to their own specialised study project
- assess their need of knowledge and take responsibility for their development of knowledge in their area of specialisation

Course content

A theoretical component provides fundamental knowledge of research. During project work, students are given the opportunity to broaden and specialise their knowledge in areas of their interest and, as a consequence, are trained in seeking, critically reviewing and compiling medical research information from different sources and, where relevant, through reviewing patient reports and registers and/or conducting experiments. Prior to the start of the course, students are to formulate a research issue based on a general aim, and write a project plan based on the issue. During the course, they are to execute an experimental or clinical project, or a literature survey based on the issue, and present the results in the form of a research paper.

Course design

Teaching:

The theoretical component provides, by means of lectures, seminars and group exercises, basic knowledge of the writing of a project plan, research ethics, research design, statistics, epidemiology, clinical trials, laws and regulations, qualitative methodology, interview/questionnaire methodology, literature searches, academic writing and oral presentations and peer review. All scheduled teaching, apart from lectures, is compulsory. During the project component, students conduct a research project under supervision. The project plan must be approved by the course director before the project may be commenced.

Assessment

Forms of assessment:

A written exam on research ethics, research design, epidemiology, statistics, qualitative and interview/questionnaire methodology and copyright. The components of literature searches, research articles and oral presentation are assessed in the context of the project work. The project is to be documented in writing partly as a

project plan and partly as a research paper including both an abstract in English and a popular science summary in Swedish. The paper is to be presented and defended orally and the student is also to critically review and discuss a fellow student's degree project.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass.

Entry requirements

To be admitted to the course, students must have passed all exams of semester 2 of the programme and course components up to and including semester 4.

Further information

The course has the same content as Degree Project 1 (LÄLA53).

Subcourses in LÄMA53, Degree Project 1 (Basic Level)

Applies from V15

- 1501 Written Examination, 3,0 hp
Grading scale: Fail, Pass
- 1502 Project Plan, 1,0 hp
Grading scale: Fail, Pass
- 1503 Thesis, 9,5 hp
Grading scale: Fail, Pass
- 1504 Oral Presentation, 1,0 hp
Grading scale: Fail, Pass
- 1505 Opposition, 0,5 hp
Grading scale: Fail, Pass

Applies from H13

- 1301 Theory, 3,0 hp
Grading scale: Fail, Pass
- 1302 Project Work, 12,0 hp
Grading scale: Fail, Pass